DEMONSTRATION ENVIRONMENT PROVISION SYSTEM OF SOFTWARE AND DEMONSTRATION ENVIRONMENT PROVISION METHOD OF SOFTWARE [Sofutouea no Demo Kankyou Teikyou Shisutemu Oyobi Sofutouea no Demo Kankyou Teikyou Houhou]

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UNITED STATES PATENT AND TRADEMARK OFFICE Washington, D.C. August 2007

Translated by: FLS, Inc.

| PUBLICATION COUNTRY | (19): | JP |
|-------------------------------|--------|---|
| DOCUMENT NUMBER | (11): | 02-342084 |
| DOCUMENT KIND | (12): | A |
| PUBLICATION DATE | (43): | 20021129 |
| APPLICATION NUMBER | (21): | 01-150896 |
| DATE OF FILING | (22): | 20010521 |
| ADDITION TO | (61): | |
| INTERNATIONAL CLASSIFICATION | (51): | G 06 F 9/445 |
| PRIORITY | (30): | |
| INVENTORS | (72): | SUZUKI, SHINJI |
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| DESIGNATED CONTRACTING STATES | (81): | |
| TITLE | (54): | DEMONSTRATION ENVIRONMENT PROVISION SYSTEM OF SOFTWARE AND DEMONSTRATION ENVIRONMENT PROVISION METHOD OF SOFTWARE |
| FOREIGN TITLE | [54A]: | SOFUTOUEA NO DEMO KANKYOU TEIKYOU SHISUTEMU OYOBI SOFUTOUEA NO DEMO KANKYOU TEIKYOU HOUHOU |

[Claims]

[Claim 1] A demonstration environment provision system of software, characterized by

a demonstration environment provision system of software constructed to include

a terminal server to regulate input and output of a software demonstration, and

a demonstration execution server connected to the same network as aforementioned terminal server to execute aforementioned software demonstration, and communications lines and

a user terminal to log on to aforementioned terminal server through said communications lines and

command demonstration execution on aforementioned demonstration execution server through aforementioned terminal server, and

receive through aforementioned terminal server demonstration results of aforementioned software by means of aforementioned demonstration execution server.

[Claim 2] A demonstration environment provision system of software as in Claim 1, characterized by aforementioned communications lines being the Internet.

[Claim 3] A demonstration environment provision system of software as in Claim 1, characterized by constructing a demonstration

^{*}Paragraph numbers take place for the original pagination in the foreign text.

execution environment beforehand by means of aforementioned terminal server and aforementioned demonstration execution server.

[Claim 4] A demonstration environment provision system of software as in Claim 1, characterized by providing window functionality of aforementioned terminal server to regulate input and output of a demonstration of aforementioned software on aforementioned user terminal.

[Claim 5] A demonstration environment provision method of software, characterized by

a demonstration environment provision method of software with a terminal server to regulate input and output of a demonstration of software, and

a demonstration execution server prepared beforehand connected to the same network as aforementioned terminal server to execute a demonstration of aforementioned software, and

a user terminal to log on to aforementioned terminal server through said communications lines and

command demonstration execution on aforementioned demonstration execution server through aforementioned terminal server, and

receive through aforementioned terminal server demonstration results of aforementioned software by means of aforementioned demonstration execution server.

[Claim 6] A demonstration environment provision method of software as in Claim 5, characterized by aforementioned communications lines being the Internet.

[Claim 7] A demonstration environment provision method of software as in Claim 5, characterized by constructing a demonstration execution environment beforehand by means of aforementioned terminal server and aforementioned demonstration execution server.

[Claim 8] A demonstration environment provision method of software as in Claim 5, characterized by providing window functionality of aforementioned terminal server to regulate input and output of a demonstration of aforementioned software on aforementioned user terminal.

[Detailed Explanation of Invention]

[0001] [Industrial Field of the Invention]

This invention pertains to a method to execute a demonstration in an environment through the Internet or such network, especially a system and method for providing a demonstration environment for client/ small server software.

[0002] [Previous Technology]

Currently, prior to implementing software, in other words for test versions and the like, it is common to investigate whether the software functionality meets requirements.

[0003] Previously, in a case of executing a demonstration of this kind of software, regardless of whether or not there is an

environment through the Internet or such a network, there is a need to acquire a demonstration, build an environment to operate the demonstration, install a demonstration, and perform all the settings and such of the software, before executing a demonstration.

[0004] Referring to Figure 4, previous demonstration acquisition methods were made up of a user terminal 10, a local network 30 in which that user terminal is joining in, a server 20 to control that network, a manufacturer's server 60 providing a demonstration of software, and the Internet 50 mutually connecting a manufacturer's server and a user terminal.

[0005] Through user terminal 10, a user accesses a server 60 of a software manufacturer used for demonstration provision established on the Internet 50, and acquires demonstration software from that.

After that, a user changes settings of a local network 30 and control server 20, constructing an environment to run the acquired software.

Next, a demonstration is installed on user terminal 10 and control server 20, and settings are performed in order to operate.

[0006] In this example, construction of a demonstration environment through a network of the Internet or such is explained, but even in a case of not going through the Internet, only an acquisition method of a software demonstration changes and there is not change in an actual construction method.

[0007] [Issues the Invention Proposes to Solve]

However, in this previous construction procedure there is too much trouble on a user end, in other words, there was a problem of the trouble on a user end acquiring a demonstration, building an operating environment, installing a demonstration, settings and such, or, a problem of needing to prepare a server in order to build an operating environment.

[0008] Also, on a software manufacturer end, there is no method to confirm in what way a demonstration is being used, having the problem of incorrect use and such being executed.

[0009] At this point, the objective of this invention, is to minimize trouble to a user, and further, to provide a demonstration provision method where a problem of incorrect usage cannot arise at a software manufacturer end.

[0010] [Methods to Solve the Issues]

An invention of a first real desire, is characterized as a demonstration environment provision system of software, constructed to include a terminal server to regulate input and output of a software demonstration, and a demonstration execution server connected to the same network as aforementioned terminal server to execute aforementioned software demonstration, and communications lines and a user terminal to log on to aforementioned terminal server through said communications lines and command demonstration execution on aforementioned demonstration execution server through

aforementioned terminal server, and receive through aforementioned terminal server demonstration results of aforementioned software by means of aforementioned demonstration execution server.

[0011] An invention of a second real desire, is characterized as aforementioned communications lines of the first invention being the Internet.

[0012] An invention of a third real desire, is characterized by constructing a demonstration execution environment beforehand by means of aforementioned terminal server and aforementioned demonstration execution server in the first invention.

[0013] An invention of a fourth real desire, is characterized by providing window functionality of aforementioned terminal server to regulate input and output of a demonstration of aforementioned software on aforementioned user terminal of the first invention.

[0014] An invention of a fifth real desire, is characterized by a demonstration environment provision method of software with a terminal server to regulate input and output of a demonstration of software, and a demonstration execution server prepared beforehand connected to the same network as aforementioned terminal server to-execute a demonstration of aforementioned software, and a user terminal to log on to aforementioned terminal server through communications lines, and receive through aforementioned terminal server demonstration results of aforementioned software by means of aforementioned demonstration execution server and command

demonstration execution on aforementioned demonstration execution server through aforementioned terminal server.

[0015] An invention of a sixth real desire, is characterized as aforementioned communications lines of the fifth invention being the Internet.

[0016] An invention of a seventh real desire, is characterized by constructing a demonstration execution environment beforehand by means of aforementioned terminal server and aforementioned demonstration execution server in the fifth invention.

[0017] An invention of an eighth real desire, is characterized by providing window functionality of aforementioned terminal server to regulate input and output of a demonstration of aforementioned software on aforementioned user terminal of the fifth invention.

[0018] [Implementation Form of Invention]

Next, a form of an implementation example of this invention is explained in detail referring to the figures.

[0019] Figure 1 is a system structure figure showing a form of one example of this invention.

[0020] Referring to Figure 1, a form of an example of this invention is constructed from a user terminal 110, and a terminal server 210 prepared on a manufacturer end, and a local area network 200 of a manufacturer that a terminal server is joining, and a demonstration execution server 220 that is on that network, and the

Internet 100 that mutually connects a terminal server of a manufacturer and a user terminal.

[0021] User terminal 110 is an information processing device such as a personal computer. In user terminal 110, software for log on to a terminal server is installed, and terminal server 210 of a software manufacturer is accessed on the Internet 100, and has the function of operating as a terminal server terminal.

[0022] Terminal server 210 has a terminal server system, and has a virtual desktop screen on each terminal server client. When user terminal 110 accesses terminal server 210 through terminal server client software, it is possible to operate a virtual desktop screen granted to a user. Operation on a screen is executed completely on terminal server 210, and on user terminal 110, only that desktop screen is shown. Also, in terminal server 210, inside a demonstration of client server system software, a portion that is placed on a client is installed beforehand by a manufacturer.

[0023] We want to refer to section [0009] of JP H10-21173A, for example, for details of the abovementioned terminal server.

[0024] In demonstration execution server 220, inside a demonstration of client server system software, the portion that is placed on a server is installed beforehand by a manufacturer, and at the time of demonstration execution, it has interaction with a terminal server 210 through network 200.

[0025] Next, operation of this invention is explained referring to an operation explanation diagram of Figure 3.

[0026] User terminal 110 logs on to an account applied for beforehand on terminal server 210 of a software manufacturer on the Internet 100 using terminal server log on software (Step 1). If that account is correct, log on to terminal server 210 is permitted (Step 2). On terminal server 210, a desktop region for user use is prepared, and a user that has logged on here, by operating a window as in figure 2 by a terminal server system function is able to operate terminal server 210 through the Internet 100. Also the results of that operation are immediately shown on a user terminal through the Internet 100.

[0027] When executing a demonstration operating a terminal server from user terminal 100 (Step 3), terminal server 210 executes a connection to demonstration execution server 220 (Step 4), and a demonstration is executed using data on demonstration execution server 220 (Step 5). Terminal server 210 displays this execution result sequentially on user terminal 110 (Step 6).

[0028] These processes execute until a user issues a log off command to terminal server 210 from user terminal 110 (Step 6) [sic] and terminal server 210 severs the connection with user terminal 110 (Step 7) [sic].

[0029] Also, here the user terminal was explained as a single unit, but there is no limit to the number of user terminals.

[0030] In the same way, multiple units of demonstration execution servers can also be connected, having the possibility of executing multiple application demonstrations with one connection from a user terminal.

[0031] [Invention effects]

A primary effect, in order to operate a demonstration environment, is the point of not needing to build an environment at a user end.

[0032] The reason is because it is possible to use an environment prepared in advance, as is, at a manufacturer end by connecting to a terminal server of a manufacturer.

[0033] A secondary effect, is the point that even in a demonstration environment through Internet lines, a speed reduction at a user terminal does not occur.

[0034] The reason is because operation of an actual demonstration is executed over a local network of a manufacturer, and by means of a terminal server system for user terminal ends, because those execution results can be confirmed, it is difficult to feel effects of slowdown in wire speed on the Internet.

[0035] A third effect, is the point that there is no incorrect use of a demonstration of software.

[0036] The reason is because a demonstration is executed on a server of a manufacturer and there is no need to install on a user terminal.

[Simple Explanation of the Figures]

[Figure 1] A system construction figure showing a form of one implementation example of this invention.

[Figure 2] A sample screen display in a user terminal of this invention.

[Figure 3] A flow diagram showing operation of an implementation of this invention.

[Figure 4] A block diagram showing a previous demonstration provision procedure.

[Explanation of markings]

10 - User terminal

20 - Server

30 - Local network

50 - Internet

60 - Server for demonstration provision

100 - Internet

110 - User terminal

200 - Local network

210 - Terminal server

220 - Demonstration execution server

Figure 1

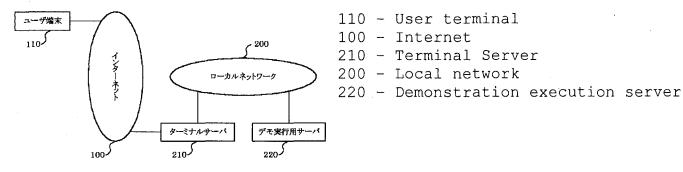
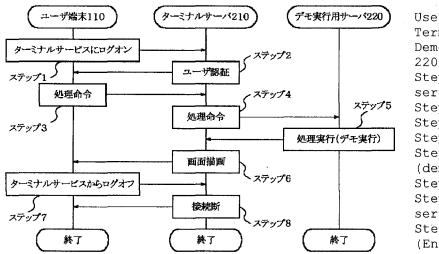
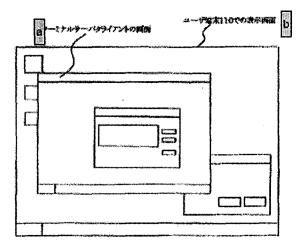


Figure 3

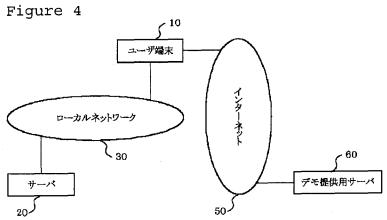


User terminal 110 Terminal Server 210 Demonstration Execution Server 220 Step 1 - Log on to terminal service Step 2 - User confirmation Step 3 - Processing command Step 4 - Processing command Step 5 - Processing execution (demonstration execution) Step 6 - Screen refresh Step 7 - Log off from terminal service Step 8 - Sever connection (End - End - End)

Figure 2



Key: a) Screen of terminal server client; b) Display screen of user terminal 110.



10 - User terminal

20 - Server

30 - Local network

50 - Internet

60 - Server for demonstration

provision